AN 1997-053137 JAPIO
TI HYDROGEN STORAGE ALLOY AND HYDROGEN STORAGE ALLOY ELECTRODE
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PA MATSUSHITA ELECTRIC IND CO LTD
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AB PROBLEM TO BE SOLVED: To provide a hydrogen storage alloy electrode excellent in cycle characteristics and high-efficiency electric discharge characteristics by improving a hydrogen storage of Ti-V-Ni type, having a body-centered cubic structure.
SOLUTION: This alloy is a hydrogen storage alloy which has a composition represented by the formula, Ti<SB>x</SB>V<SB>y</SB>M<SB>z</SB>Ni<SB>1-x-y-z</SB> (where M means at least one element selected from the group consisting of Zr and Hf and 0.2<=x<=0.4, 0.3<=y<0.7, 0.1<=z<=0.3, and 0.6<=x+y+z<=0.95 are satisfied) and in which the essential component of alloy phase has a body-centered cubic structure. Further, this hydrogen storage alloy contains at least one element selected from the group consisting of Cr, Mo, W, Co, Fe, Cu, Ag, Al, Mn, Zn, Si, B, P, S, and rare earth elements by <=5atom% per element based on the total content.
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